



Common Causes of Spray Nozzle Problems

Many spray nozzle problems cannot be easily detected with a visual inspection.

These are some of the problems you should check for:

Wear and tear: gradual removal of the nozzle material causes the nozzle orifice and internal flow passages to become enlarged. As a result, flow is increased and pressure may decrease and the flow pattern may become irregular and spray drops are bigger.

Material build up: this occurs when the liquid has evaporated and a layer of "scale" remains causing an obstruction to the orifice or internal flow passages.

Accidental damage: damage to the orifice of the nozzle can occur when improper tools are used when cleaning. Nozzles should not be cleaned with a pin or piece of wire.

High temperature: certain liquids need to be sprayed at high temperatures or in a high temperature environment. The nozzle may soften and breakdown unless special high temperature resistant materials are used.



" Now and then it's good to pause in our pursuit of happiness and just be happy "

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Air Atomising Nozzles

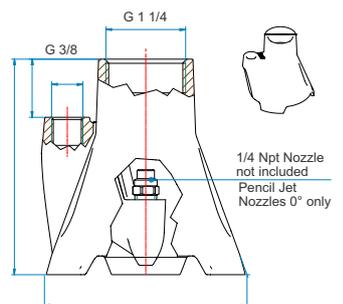
Air atomising nozzles provide the finest droplets by mixing air and liquid together to create the mist. They come in various sizes and materials and can be operated automatically or manually. There are several different types available in both internal mixing and external. Spray patterns can be flat fan or round hollow or full cone.



Sludge Pump

Hawk have a new jet sludge pump which will soon be available. Fed with 15 l/min at 150 bar it will suck a 210 l drum of water empty in about 30 seconds.

Because it has no moving parts, it can handle solids of up to about 15 mm diameter. Sludge and sand are no problem.



Custom Misting Unit

A customer had a special need for a misting unit for conveyor dust suppression. The pump used was one of the new ECO pumps. This is a cost effective low-volume range of pumps which can be used where high pressure combined with low volume is required. They are used in combination with extra fine nozzles to create a mist or fog for dust suppression, humidification or evaporative cooling.



Nampo Harvest Day Exhibition - 13th - 16th May 2014

One of the largest shows of agricultural and industrial machinery products and services in the southern hemisphere takes place outside Bothaville in the Free State. We will be exhibiting in the Caltex hall, stand no. 36.

